

133-02 US SEQ LIST 20nov2003.ST25.txt  
SEQUENCE LISTING

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Payne, Sonha C.

<120> PLASTIC AND ELASTIC PROTEIN COPOLYMERS

<130> 133-02 US

<150> US 60/428,438

<151> 2002-11-22

<150> CA 2,417,634

<151> 2003-01-29

<150> JP 2003-98691

<151> 2003-04-01

<150> AU 2003236491

<151> 2003-08-27

<160> 68

<170> PatentIn version 3.2

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<211> 4

<212> PRT

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<220>

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<400> 1

Val Pro Gly Gly

1

<210> 2

<211> 5

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<220>

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<400> 2

Val Pro Gly Val Gly

1

5

<210> 3

<211> 6

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<213> Artificial

<220>

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Ala Pro Gly Val Gly Val  
1 5

<210> 4

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic construct

<220>

<221> REPEAT

<222> (2)..(6)

<223> Repeat residues 2 to 6; total of 19 repeat units.

G-(VPGVG)19-VPGV

<400> 4

Gly Val Pro Gly Val Gly Val Pro Gly Val  
1 5 10

<210> 5

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic construct

<400> 5

Val Pro Ala Val Gly  
1 5

<210> 6

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic construct

<400> 6

Ile Pro Ala Val Gly  
1 5

<210> 7

<211> 5

<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 7

Val Pro Asn Val Gly  
1 5

<210> 8  
<211> 25  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 8

Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly  
20 25

<210> 9  
<211> 25  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

<220>  
<221> REPEAT  
<222> (1)..(25)  
<223> [VPAVG(IPAVG)4]n

<400> 9

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly  
20 25

<210> 10  
<211> 25  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

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<220>  
 <221> REPEAT  
 <222> (1)..(25)  
 <223> [(IPAVG)4(VPAVG)]n

<400> 10

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly  
 20 25

<210> 11  
 <211> 25  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<400> 11

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly  
 20 25

<210> 12  
 <211> 25  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<400> 12

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly  
 20 25

<210> 13  
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 <212> PRT  
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<220>  
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<400> 13

Val Pro Gly Glu Gly  
 1 5

<210> 14  
 <211> 25  
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 <213> Artificial

<220>  
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<400> 14

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

<210> 15  
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 <213> Artificial

<220>  
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<400> 15

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Glu Gly  
 20 25

<210> 16  
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<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (1)..(25)  
 <223> [(VPGEG)(VPGVG)4]m;  
 alternatively [VPGEGVPGVG VPGVGVPVG VPGVG]m

<400> 16

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

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<210> 17  
 <211> 25  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (1)..(25)  
 <223> [VPGVGVPGVG VPGVGVPGVG VPGEG]<sub>m</sub>

<400> 17

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Glu Gly  
 20 25

<210> 18  
 <211> 25  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<400> 18

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

<210> 19  
 <211> 25  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (1)..(25)  
 <223> [(VPGVG)<sub>2</sub> VPGEG (VPGVG)<sub>2</sub>]<sub>m</sub>

<400> 19

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
20 25

<210> 20  
<211> 25  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

<220>  
<221> REPEAT  
<222> (1)..(25)  
<223> Repeat [VPGVGVPVGIG VPGVGVPVGIG VPGVG] for a total of 19 units  
alternatively [VPGVG(VPGIGVPVG)2]19

<400> 20

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Ile Gly Val Pro Gly Val Gly  
20 25

<210> 21  
<211> 485  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

<400> 21

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val  
1 5 10 15

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro  
20 25 30

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly  
35 40 45

Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile  
50 55 60

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val  
85 90 95

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Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
100 105 110

Gly Ile Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly  
115 120 125

val Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val  
130 135 140

Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly val Gly  
145 150 155 160

val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly Ile Gly val  
165 170 175

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro  
180 185 190

Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly  
195 200 205

val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly Ile  
210 215 220

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Ile Gly  
225 230 235 240

val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly val  
245 250 255

Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro  
260 265 270

Gly Ile Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
275 280 285

Ile Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val  
290 295 300

Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly  
305 310 315 320

val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly val Gly val  
325 330 335

Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro  
340 345 350



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Gly val Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly  
355 360 365

val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly val  
370 375 380

Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly Ile Gly  
385 390 395 400

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Ile Gly val  
405 410 415

Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro  
420 425 430

Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly  
435 440 445

Ile Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Ile  
450 455 460

Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly  
465 470 475 480

val Pro Gly val Gly  
485

<210> 22  
<211> 6  
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<213> Artificial

<220>  
<223> Synthetic construct

<400> 22  
ctcttc

6

<210> 23  
<211> 760  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

<400> 23

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
1 5 10 15

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
20 25 30

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
35 40 45

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
50 55 60

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
65 70 75 80

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
85 90 95

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
100 105 110

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
115 120 125

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
130 135 140

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
145 150 155 160

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val  
165 170 175

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
180 185 190

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
195 200 205

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val  
210 215 220

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
225 230 235 240

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val  
245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro  
260 265 270

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Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
275 280 285

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val  
290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
305 310 315 320

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
325 330 335

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
340 345 350

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
355 360 365

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
370 375 380

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
385 390 395 400

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
405 410 415

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
420 425 430

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
435 440 445

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
450 455 460

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
465 470 475 480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
485 490 495

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
500 505 510

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
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515

520

525

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
530 535 540

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
545 550 555 560

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val  
565 570 575

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
580 585 590

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
595 600 605

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val  
610 615 620

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
625 630 635 640

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val  
645 650 655

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro  
660 665 670

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
675 680 685

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val  
690 695 700

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
705 710 715 720

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
725 730 735

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
740 745 750

Gly val Gly val Pro Gly val Gly  
755 760

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 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<400> 24

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
 1 5 10 15

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
 20 25 30

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
 35 40 45

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
 50 55 60

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
 65 70 75 80

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
 85 90 95

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
 100 105 110

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
 115 120 125

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
 130 135 140

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
 145 150 155 160

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val  
 165 170 175

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
 180 185 190

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 195 200 205

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val  
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210

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
225 230 235 240

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
260 265 270

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
275 280 285

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
305 310 315 320

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
325 330 335

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
340 345 350

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
355 360 365

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
370 375 380

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
385 390 395 400

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
435 440 445

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
450 455 460

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Gly val Pro Gly Glu Gly val Pro Gly Val Gly val Pro Gly val Gly  
465 470 475 480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
485 490 495

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
500 505 510

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
515 520 525

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
530 535 540

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
545 550 555 560

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val  
565 570 575

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
580 585 590

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
595 600 605

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val  
610 615 620

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
625 630 635 640

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val  
645 650 655

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro  
660 665 670

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
675 680 685

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val  
690 695 700

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
705 710 715 720

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val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
725 730 735

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
740 745 750

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
755 760 765

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
770 775 780

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
785 790 795 800

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
805 810 815

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
820 825 830

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
835 840 845

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
850 855 860

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
865 870 875 880

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
885 890 895

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
900 905 910

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
915 920 925

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
930 935 940

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
945 950 955 960

<210> 25  
<211> 1210



<212> PRT  
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<220>  
 <223> Synthetic construct

<400> 25

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 20 25 30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 35 40 45

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 50 55 60

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 85 90 95

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 100 105 110

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
 130 135 140

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 145 150 155 160

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
 165 170 175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 180 185 190

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 195 200 205

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 210 215 220

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Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
 225 230 235 240

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val  
 245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro  
 260 265 270

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 275 280 285

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val  
 290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
 305 310 315 320

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
 325 330 335

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
 340 345 350

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 355 360 365

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
 370 375 380

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
 385 390 395 400

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
 405 410 415

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
 420 425 430

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
 435 440 445

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
 450 455 460

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
 465 470 475 480

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val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
485 490 495

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
500 505 510

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
515 520 525

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
530 535 540

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
545 550 555 560

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val  
565 570 575

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
580 585 590

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
595 600 605

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val  
610 615 620

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
625 630 635 640

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val  
645 650 655

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro  
660 665 670

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
675 680 685

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val  
690 695 700

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
705 710 715 720

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
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725

730

735

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 755 760 765

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
 785 790 795 800

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 805 810 815

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 835 840 845

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 850 855 860

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 885 890 895

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 900 905 910

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 915 920 925

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
 930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
 965 970 975

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
 980 985 990

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 995 1000 1005

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
 1010 1015 1020

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1025 1030 1035

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
 1040 1045 1050

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1055 1060 1065

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1070 1075 1080

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
 1085 1090 1095

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1100 1105 1110

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
 1115 1120 1125

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1130 1135 1140

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1145 1150 1155

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
 1160 1165 1170

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1175 1180 1185

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
 1190 1195 1200

val Gly val Pro Gly val Gly  
 1205 1210

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<210> 26  
 <211> 35  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (6)..(30)  
 <223> Repeat residues 6 to 30; total of 30 repeat units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]30 VPGVG

<400> 26

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 20 25 30

Gly Val Gly  
 35

<210> 27  
 <211> 35  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (6)..(30)  
 <223> Repeat residues 6 to 30; total of 38 units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]38 VPGVG

<400> 27

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 20 25 30

Gly Val Gly  
 35

<210> 28  
 <211> 35

<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

<220>  
<221> REPEAT  
<222> (6)..(30)  
<223> Repeat residues 6 to 30; total of 48 units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]48 VPGVG

<400> 28

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
20 25 30

Gly Val Gly  
35

<210> 29  
<211> 35  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (6)..(30)  
<223> Repeat residues 6 to 30; total of 12 units.

VPGVG [(VPGVG)(VNVG)4]12 VPGVG

<400> 29

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val  
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
20 25 30

Gly Val Gly  
35

<210> 30  
<211> 310  
<212> PRT  
<213> Artificial

&lt;220&gt;

&lt;223&gt; Synthetic construct.

&lt;400&gt; 30

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val  
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
20 25 30

Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn  
35 40 45

Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val  
50 55 60

Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
85 90 95

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro  
100 105 110

Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn  
115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
130 135 140

Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly  
145 150 155 160

Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
165 170 175

Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro  
180 185 190

Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly  
195 200 205

Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
210 215 220

Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly  
225 230 235 240



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Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
260 265 270

Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn  
275 280 285

Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
290 295 300

Gly Val Pro Gly Val Gly  
305 310

<210> 31  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (1)..(12)

<400> 31

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
1 5 10

<210> 32  
<211> 22  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (6)..(17)  
<223> Repeat residues 6 to 17; total of 2 x 23 = 46 units.

VPGVG [(APGGVPGGAPGG)2]23 VPGVG

<400> 32

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
1 5 10 15

Gly Val Pro Gly Val Gly  
20

<210> 33  
<211> 562  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 33

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
1 5 10 15

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
20 25 30

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
35 40 45

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
50 55 60

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
65 70 75 80

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
85 90 95

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
100 105 110

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
115 120 125

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
130 135 140

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
145 150 155 160

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
165 170 175

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
180 185 190

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
Page 26

195

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
210 215 220

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
225 230 235 240

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
245 250 255

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
260 265 270

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
275 280 285

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
290 295 300

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
305 310 315 320

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
325 330 335

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
340 345 350

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
355 360 365

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
370 375 380

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
385 390 395 400

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
405 410 415

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
420 425 430

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
435 440 445

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
450 455 460

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
465 470 475 480

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
485 490 495

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
500 505 510

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
515 520 525

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
530 535 540

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
545 550 555 560

Val Gly

<210> 34  
<211> 22  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (6)..(17)  
<223> Repeat residues 6 to 17; total of 2 x 30 = 60 units.

VPGVG [(APGGVPGGAPGG)2]30 VPGVG

<400> 34

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
1 5 10 15

Gly Val Pro Gly Val Gly  
20

<210> 35  
<211> 730  
<212> PRT  
<213> Artificial

&lt;220&gt;

&lt;223&gt; Synthetic construct.

&lt;400&gt; 35

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
1 5 10 15

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
20 25 30

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
35 40 45

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
50 55 60

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
65 70 75 80

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
85 90 95

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
100 105 110

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
115 120 125

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
130 135 140

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
145 150 155 160

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
165 170 175

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
180 185 190

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
195 200 205

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
210 215 220

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
225 230 235 240

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Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
245 250 255

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
260 265 270

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
275 280 285

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
290 295 300

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
305 310 315 320

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
325 330 335

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
340 345 350

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
355 360 365

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
370 375 380

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
385 390 395 400

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
405 410 415

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
420 425 430

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
435 440 445

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
450 455 460

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
465 470 475 480

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
Page 30

485

490

495

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
                   500                                  505                                  510

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
                   515                                  520                                  525

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
                   530                                  535                                  540

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
                   545                                  550                                  555                                  560

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
                   565                                  570                                  575

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
                   580                                  585                                  590

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
                   595                                  600                                  605

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
                   610                                  615                                  620

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
                   625                                  630                                  635                                  640

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
                   645                                  650                                  655

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
                   660                                  665                                  670

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
                   675                                  680                                  685

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
                   690                                  695                                  700

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
                   705                                  710                                  715                                  720

Gly Ala Pro Gly Gly Val Pro Gly Val Gly  
                   725                                  730

<210> 36  
 <211> 10  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<400> 36

Ile Pro Gly Val Gly Val Pro Gly Val Gly  
 1 5 10

<210> 37  
 <211> 25  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<220>  
 <221> REPEAT  
 <222> (1)..(25)

<400> 37

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

<210> 38  
 <211> 475  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<400> 38

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro  
 20 25 30

Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly  
 35 40 45

Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val  
 50 55 60



Gly Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
65 70 75 80

Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val  
85 90 95

Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro  
100 105 110

Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
115 120 125

val Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val  
130 135 140

Gly val Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly  
145 150 155 160

val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly val  
165 170 175

Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro  
180 185 190

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly  
195 200 205

val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val  
210 215 220

Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly  
225 230 235 240

Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly Ile  
245 250 255

Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro  
260 265 270

Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly  
275 280 285

val Gly Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
290 295 300

Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly  
305 310 315 320

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val Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val  
325 330 335

Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly val Pro  
340 345 350

Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly  
355 360 365

val Gly val Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val  
370 375 380

Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly  
385 390 395 400

val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile  
405 410 415

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly Ile Pro  
420 425 430

Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly  
435 440 445

val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val  
450 455 460

Gly Ile Pro Gly val Gly val Pro Gly val Gly  
465 470 475

<210> 39  
<211> 10  
<212> DNA  
<213> Artificial

<220>  
<223> Synthetic construct

<220>  
<221> misc\_feature  
<222> (7)..(10)  
<223> n is a, c, g, or t

<400> 39  
ctcttcnnnn

10

<210> 40  
<211> 25  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (1)..(25)

<400> 40

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
20 25

<210> 41  
<211> 750  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 41

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
20 25 30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
35 40 45

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
50 55 60

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
85 90 95

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
100 105 110

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
115 120 125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
130 135 140

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Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
145 150 155 160

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
165 170 175

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
180 185 190

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
195 200 205

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
210 215 220

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
225 230 235 240

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
260 265 270

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
275 280 285

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
305 310 315 320

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val  
325 330 335

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
340 345 350

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
355 360 365

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val  
370 375 380

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
Page 36



Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
660 665 670

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
675 680 685

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
740 745 750

<210> 42  
<211> 1200  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 42

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
35 40 45

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
50 55 60

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
85 90 95

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
Page 38

100

105

110

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
115 120 125

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
130 135 140

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
145 150 155 160

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
165 170 175

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
180 185 190

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
195 200 205

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
210 215 220

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
225 230 235 240

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
260 265 270

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
275 280 285

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
305 310 315 320

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val  
325 330 335

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
340 345 350

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 355 360 365

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 370 375 380

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 385 390 395 400

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 435 440 445

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 465 470 475 480

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 485 490 495

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 500 505 510

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 515 520 525

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
 545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 565 570 575

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 595 600 605



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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
610 615 620

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
625 630 635 640

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
660 665 670

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
675 680 685

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
740 745 750

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
805 810 815

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
835 840 845

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
850 855 860

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
865 870 875 880

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
885 890 895

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
900 905 910

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
915 920 925

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
930 935 940

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
945 950 955 960

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
965 970 975

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
980 985 990

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
995 1000 1005

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1010 1015 1020

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
1025 1030 1035

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1040 1045 1050

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly -  
1055 1060 1065

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
1070 1075 1080

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1085 1090 1095

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
Page 42

1100

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1115 1120 1125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1130 1135 1140

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
1145 1150 1155

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1160 1165 1170

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1175 1180 1185

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
1190 1195 1200

<210> 43  
<211> 528  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 43

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
1 5 10 15

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
20 25 30

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
35 40 45

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
50 55 60

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
65 70 75 80

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
85 90 95

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
100 105 110

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 115 120 125

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
 130 135 140

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
 145 150 155 160

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 165 170 175

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
 180 185 190

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
 195 200 205

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 210 215 220

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
 225 230 235 240

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
 245 250 255

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 260 265 270

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
 275 280 285

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
 290 295 300

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 305 310 315 320

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
 325 330 335

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
 340 345 350

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 Page 44

355

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
370 375 380

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
385 390 395 400

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
405 410 415

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
420 425 430

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
435 440 445

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
450 455 460

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
465 470 475 480

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
485 490 495

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
500 505 510

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
515 520 525

<210> 44  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (1)..(5)  
<223> [(VPGMG)5]x; wherein x is from about 10 to about 100

<400> 44

Val Pro Gly Met Gly  
1 5

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```

<210> 45
<211> 106
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 45
aagcttgaag acgttccagg tgcaggcgta ccgggtgctg gcgttccggg tgaagggtgtt    60
ccaggcgcag gtgtaccggg tgcgggtgtt ccaagagacg ggatcc                      106


<210> 46
<211> 106
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 46
aagcttgaag acgttccagg tttcggcatc ccgggtgtag gtatcccagg cggttggtatt    60
ccgggtgtag gcatccctgg cggttgcggt ccaagagacg ggatcc                      106


<210> 47
<211> 106
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 47
aagcttgaag acattccagc tgttggtatc ccggctgttg gtatcccagc tgttggcatt    60
ccggctgtag gtatcccggc tgttggtatt ccaagagacg ggatcc                      106


<210> 48
<211> 57
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 48
ccatggttcc agagtcttca ggtaccgaag acgttccagg tgtaggctaa taagctt    57


<210> 49
<211> 400
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<400> 49

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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
35 40 45

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
85 90 95

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
210 215 220

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
260 265 270

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
385 390 395 400

<210> 50  
<211> 410  
<212> PRT  
<213> Artificial

<220>  
<223> synthetic construct.

<400> 50

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60



133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
                   325                  330                  335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
                   340                  345                  350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
                   355                  360                  365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
                   370                  375                  380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
                   385                  390                  395                  400

Val Pro Ala Val Gly Ile Pro Ala Val Gly  
                   405                  410

<210> 51  
 <211> 821  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<220>  
 <221> MISC\_FEATURE  
 <222> (411)..(411)  
 <223> X at position 411 represents an optionally selected midblock  
 structure.

<400> 51

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1                  5                  10                  15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
                   20                  25                  30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
                   35                  40                  45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
                   50                  55                  60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
                   65                  70                  75                  80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Xaa Val Pro Ala Val Gly  
405 410 415

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
420 425 430

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
435 440 445

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
450 455 460

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
465 470 475 480

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
485 490 495

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
500 505 510

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
515 520 525

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
530 535 540

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
545 550 555 560

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
565 570 575

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
580 585 590

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
595 600 605

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
610 615 620

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
625 630 635 640

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
645 650 655

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
660 665 670

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
675 680 685

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
690 695 700

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
705 710 715 720

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
725 730 735

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
740 745 750

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
755 760 765

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
770 775 780

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
785 790 795 800

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
805 810 815

Ile Pro Ala Val Gly  
820

<211> 1580  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<400> 52

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
 20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
 65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
 145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
 165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 210 215 220

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
 225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
 245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
 290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
 305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
 340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
 370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
 385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val  
 405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 435 440 445

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 465 470 475 480

465

470

475

480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
 485 490 495

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
 500 505 510

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 515 520 525

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
 530 535 540

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
 545 550 555 560

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
 565 570 575

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
 580 585 590

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
 595 600 605

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
 610 615 620

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly  
 625 630 635 640

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val  
 645 650 655

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
 660 665 670

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
 675 680 685

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu  
 690 695 700

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly  
 705 710 715 720



Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
740 745 750

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
805 810 815

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
835 840 845

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
850 855 860

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
885 890 895

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
900 905 910

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
915 920 925

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
965 970 975

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly Val Pro  
980 985 990

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
995 1000 1005

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1010 1015 1020

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
1025 1030 1035

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1040 1045 1050

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1055 1060 1065

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
1070 1075 1080

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1085 1090 1095

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
1100 1105 1110

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1115 1120 1125

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
1130 1135 1140

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly  
1145 1150 1155

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Ala  
1160 1165 1170

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
1175 1180 1185

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala  
1190 1195 1200

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
1205 1210 1215

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1220 1225 1230

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1235 1240 1245

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1250 1255 1260

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1265 1270 1275

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1280 1285 1290

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1295 1300 1305

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1310 1315 1320

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1325 1330 1335

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1340 1345 1350

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1355 1360 1365

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1370 1375 1380

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1385 1390 1395

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1400 1405 1410

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1415 1420 1425

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1430 1435 1440

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala

1445

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala  
1460 1465 1470

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
1475 1480 1485

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala  
1490 1495 1500

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
1505 1510 1515

val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
1520 1525 1530

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala  
1535 1540 1545

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
1550 1555 1560

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala  
1565 1570 1575

val Gly  
1580

<210> 53  
<211> 2030  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 53

val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile  
1 5 10 15

Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro  
20 25 30

Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
35 40 45

val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val  
50 55 60

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
Page 61

133-02 US SEQ LIST 20nov2003.ST25.txt  
 305 310 315 320

Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile  
 325 330 335

Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro  
 340 345 350

Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
 355 360 365

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val  
 370 375 380

Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly  
 385 390 395 400

val Pro Ala val Gly Ile Pro Ala val Gly val Pro Gly val Gly val  
 405 410 415

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro  
 420 425 430

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 435 440 445

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val  
 450 455 460

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
 465 470 475 480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val  
 485 490 495

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
 500 505 510

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 515 520 525

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val  
 530 535 540

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly  
 545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
565 570 575

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
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755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
805 810 815

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro  
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850 855 860

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly  
865 870 875 880

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885 890 895

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945 950 955 960

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Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro  
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Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
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133-02 US SEQ LIST 20nov2003.ST25.txt

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 Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 1280 1285 1290  
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 Page 65

1295

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val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly  
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
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133-02 US SEQ LIST 20nov2003.ST25.txt

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val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala  
1820 1825 1830

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1850 1855 1860

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala  
1865 1870 1875

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1895 1900 1905

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1910 1915 1920

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1925 1930 1935

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1940 1945 1950

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1955 1960 1965

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1970 1975 1980

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1985 1990 1995

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Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala val Gly  
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Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile  
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Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro  
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133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
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225 230 235 240

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245 250 255

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260 265 270

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385 390 395 400

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133-02 US SEQ LIST 20nov2003.ST25.txt

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Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
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675

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Pro Gly Gly val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly val  
755 760 765

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly val Pro Gly Gly Ala  
770 775 780

Pro Gly Gly Ala Pro Gly Gly val Pro Gly Gly Ala Pro Gly Gly Ala  
785 790 795 800

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
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<211> 10

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35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
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Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
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Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
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133-02 US SEQ LIST 20nov2003.ST25.txt  
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 165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
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 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 210 215 220

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 225 230 235 240

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 245 250 255

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Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
 370 375 380

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
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420 425 430

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435 440 445

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
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Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
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Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
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Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
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Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
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133-02 US SEQ LIST 20nov2003.ST25.txt

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Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala val Gly  
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Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro  
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145 150 155 160

Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val  
165 170 175

Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro  
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195 200 205

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val  
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Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro  
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133-02 US SEQ LIST 20nov2003.ST25.txt

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305 310 315 320

Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile  
325 330 335

Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro  
340 345 350

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370 375 380

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385 390 395 400

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405 410 415

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450 455 460

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485 490 495

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro  
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Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
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545 550 555 560

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Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
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 Page 87

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755 760 765

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785 790 795 800

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Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
Page 91

1145

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Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
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Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
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 180 185 190

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 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
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210

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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
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133-02 US SEQ LIST 20nov2003.ST25.txt

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Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val  
Page 99

530

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